

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 0341 Sherman Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	04/07/2017 04/07/2017	Herman Phillips

LM Start		Rating **	A	Issue No.	13
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD0341_01_f_2014_13				
Comment Code					
Inspector Comment					
District has the O+M Manual on hand.					

No Photos

LM Start		Rating **	A	Issue No.	14
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD0341_01_f_2014_14				
Comment Code					
Inspector Comment					
District has emergency supplies stored.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Threemile Slough	Right	3.36	04/07/2017 04/07/2017	Herman Phillips

LM Start		Rating **	A	Issue No.	15
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_RD0341_01_f_2014_15				
Comment Code					
Inspector Comment					
District is prepared for a flood fight.					

No Photos

LM Start	0.00	Rating **	M	Issue No.	20
LM End	0.03	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.085555 °	38.085918 °	
			-121.686438 °	-121.686690 °	
DWR ID	DWR_RD0341_01_f_2016_20				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control the regrowth on the waterside..					

Photo 1 of 1 : SP_2017_RD0341_167_20_20170510_00047.jpg



RD 341 Looking downstream from crown roadway levee mile 0.00.

LM Start	0.00	Rating **	M	Issue No.	21
LM End	3.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.085500 °	38.105240 °	
			-121.686442 °	-121.702595 °	
DWR ID	DWR_RD0341_01_s_2017_21				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the wild growth other than native grasses from the levee slope.					

No Photos

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

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Unit No. 01 Threemile Slough	Right	3.36	04/07/2017 04/07/2017	Herman Phillips

LM Start	0.00	Rating **	M	Issue No.	27
LM End	3.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.085500 °	38.105240 °
				-121.686442 °	-121.702595 °
DWR ID	DWR_RD0341_01_s_2017_27				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the wild growth other than native from the levee slope.					

No Photos

LM Start	0.00	Rating **	M	Issue No.	28
LM End	0.00	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.085507 °	38.085507 °
				-121.686528 °	-121.686528 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22063 DS_ID:24215 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 30-inch steel drainage pipe through the levee, 11.1 feet below the crown. CM cutoff wall around pipe at center of levee. Siphon breaker on both sides. Pump on landward side approximately 300 feet from landward toe. Pipe exposed on both levee slopes. Rock revetment on waterward slope. (USACE-1962). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.0). Marine Station number 1 located on waterward side with attached small solar panel on top. FS Date: 5/5/2009					

Photo 1 of 3 : UCIP_SP_2017_22063_37640.jpg



Marine station posts in river identified as Station 1 near crossing.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	04/07/2017 04/07/2017	Herman Phillips

LM Start	0.00	Rating **	M	Issue No.	28 (cont)
LM End	0.00	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.085507 °	38.085507 °
				-121.686528 °	-121.686528 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:22063
DS_ID:24215
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.
FIELD_STRUCT_DESC: 30-inch steel drainage pipe through the levee, 11.1 feet below the crown. CM cutoff wall around pipe at center of levee. Siphon breaker on both sides. Pump on landward side approximately 300 feet from landward toe. Pipe exposed on both levee slopes. Rock revetment on waterward slope. (USACE-1962). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.0). Marine Station number 1 located on waterward side with attached small solar panel on top.
FS Date: 5/5/2009

LM Start	0.00	Rating **	M	Issue No.	28 (cont)
LM End	0.00	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : UCIP_SP_2017_22063_37644.jpg



View of pipe and siphon breaker located on waterward side--dense vegetation on slope.

Photo 3 of 3 : UCIP_SP_2017_22063_37642.jpg



Overview of landward slope above ground once it exits levee. Pump is located approximately 300 feet from levee toe.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	04/07/2017 04/07/2017	Herman Phillips

LM Start	3.94	Rating **	U	Issue No.	41
LM End	6.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.098158 °	38.080223 °
				-121.706320 °	-121.730312 °
DWR ID	DWR_RD0341_02_s_2017_41				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the unwanted vegetation from the waterside shoulder and slope.					

Photo 1 of 1 : SP_2017_RD0341_168_41_20170510_00083.jpg



Looking downstream from levee mile 3.94 at tall unwanted weeds and other vegetation on the waterside shoulder and slope.

LM Start	4.15	Rating **	M	Issue No.	7
LM End	4.19	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.095148 °	38.094590 °
				-121.706367 °	-121.706393 °
DWR ID	DWR_RD0341_02_s_2016_7				
Comment Code					
Inspector Comment					
2011 - Large new erosion pocket probably hidden by vegetation in the past. 2015: No observed changes. [2015 Site ID: SAC_8-2_L]					

Photo 1 of 1 : SP_2017_RD0341_168_7_20170404_00004.jpg



USACE 2013 Photo #1

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	04/07/2017 04/07/2017	Herman Phillips

LM Start	4.47	Rating **	U	Issue No.	3
LM End	4.62	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.090620 °	38.088572 °
				-121.706684 °	-121.707127 °
DWR ID	DWR_RD0341_02_s_2016_3				
Comment Code					
Inspector Comment					
1999 - New small slump in eroded bank. 2005 - Reach extended because of vertical bank along the roadway upstream. 2011 - More slumping since last year. 2012 - Site upgraded to critical. Very steep slope which may be effecting the highway on top of the levee. 2015: New erosion towards downstream end of site. [2015 Site ID: SAC_8-0_L]					

Photo 1 of 1 : SP_2017_RD0341_168_3_20170404_00002.jpg



USACE 2013 Photo #1

LM Start	4.76	Rating **	U	Issue No.	4
LM End	4.85	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.086603 °	38.085459 °
				-121.707786 °	-121.708607 °
DWR ID	DWR_RD0341_02_s_2016_4				
Comment Code					
Inspector Comment					
2011 - Large slump section. 2012 - Site extended downstream, upgraded to critical, severe windwave. Slope is very steep and may be effecting the highway on top of the levee. 2015: No observed changes. [2015 Site ID: SAC_7-9_L]					

Photo 1 of 1 : SP_2017_RD0341_168_4_20170404_00003.jpg



USACE 2013 Photo #1

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	04/07/2017 04/07/2017	Herman Phillips

LM Start	5.03	Rating **	M	Issue No.	50
LM End	5.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.083532 °	38.081268 °
				-121.710668 °	-121.718675 °
DWR ID	DWR_RD0341_02_f_2016_50				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the wild unwanted growth from the levee slope levee mile 5.03-5.49.					

No Photos

LM Start	5.55	Rating **	M	Issue No.	11
LM End	5.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.081270 °	38.080807 °
				-121.719702 °	-121.723488 °
DWR ID	DWR_RD0341_02_f_2014_11				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim up the trees on the waterside slope so the ground can be seen.					

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	04/07/2017 04/07/2017	Herman Phillips

LM Start	6.14	Rating **	M	Issue No.	55
LM End	7.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.080227 °	38.073547 °
				-121.730395 °	-121.758683 °
DWR ID	DWR_RD0341_02_s_2017_55				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control the annual grasses and weeds from the slope and toe.					

No Photos

LM Start	6.17	Rating **	M	Issue No.	51
LM End	8.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.080503 °	38.072427 °
				-121.730745 °	-121.761690 °
DWR ID	DWR_RD0341_02_s_2017_51				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Spray or mow the waterside levee slope of unwanted vegetation.					

No Photos

LM Start	6.29	Rating **	U	Issue No.	47
LM End	6.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.081075 °	38.081142 °
				-121.732813 °	-121.733465 °
DWR ID	DWR_RD0341_02_f_2015_47				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Remove the Fig trees or trim them up five foot from the ground so the levee slope can be inspected.					

Photo 1 of 1 : SP_2017_RD0341_168_47_20170516_00085.jpg



RD 341 landside levee slope mile 6.29-6.32.

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WS : Water Side
CR : Crown

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U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Unit No. 02 Sacramento River	Left	6.28	04/07/2017 04/07/2017	Herman Phillips

LM Start	8.45	Rating **	M	Issue No.	54
LM End	8.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.070475 °	38.067698 °
				-121.766470 °	-121.770080 °
DWR ID	DWR_RD0341_02_s_2017_54				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control the annual grasses and weeds from the slope and toe.					

No Photos

LM Start	8.49	Rating **	U	Issue No.	48
LM End	8.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.070060 °	38.068387 °
				-121.766982 °	-121.768978 °
DWR ID	DWR_RD0341_02_f_2016_48				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control the growth of Bamboo from the waterside slope.					

Photo 1 of 1 : SP_2017_RD0341_168_48_20170516_00086.jpg

RD 341 Waterside slope looking downstream from levee mile 8.49-8.65
bambo present on the slope.

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Unit No. 02 Sacramento River	Left	6.28	04/07/2017 04/07/2017	Herman Phillips

LM Start	8.76	Rating **	M	Issue No.	53
LM End	9.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.067417 °	38.060985 °
				-121.770618 °	-121.784422 °
DWR ID	DWR_RD0341_02_s_2017_53				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control the annual grasses and weed growth from the landside slope.					

No Photos

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
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+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement